AR EGINEERING CHANGE NOTICE

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614165

Proj. ECN

2. ECN Category 3. Originator's Name, Organization, MSIN, and Telephone No. (mark one)				4. Date		
,	B. D. VALENZUELA, R2-12, 373-7232			10-6-94		
Supplemental [] Direct Revision [X]	5. Project Title/No			/Fac. No.	7. Approval Designator	
Change ECN [] Temporary []	•	RIZATION REPORT	2750)E	#-	
Standby [] Supersedure []	1	E-SHELL TANK			N/A pl 10/1/94	
Cancel/Void []		-T-107				
	8. Document Numbers (includes sheet)	Changed by this ECN no. and rev.)	9. Related EC	N No(s).	10. Related PO No.	
	WHC-SD-WM-E	R-382, REV. 0	N/#	1	N/A	
11a. Modification Work	11b. Work Package	11c. Modification Work	Complete	11d. Restored to Original Condi-		
[] Yes (fill out Blk.	N/A	N/A		tion (Temp. or Standby ECN only		
11b)	.,,	'','		''''		
[X] No (NA Blks. 11b, 11c, 11d)		Cog. Engineer Signa	ture & Date	Cog. En	gineer Signature & Date	
12. Description of Change					·	
Changed the unit f	or measuring rad	lioactivity from (Ci to kCi.			
					,	
	teria Change [X]	Design Improvement	[]	Environmen	ntal []	
(mark one)	ilitate Const.	Const. Error/Omiss				
As-Found [] Fact 13b. Justification Detail		OUTSE. ETTOT/OUTS		Design Ell	or/Omission []	
iso. Sustification Setaits	5					
		<u></u>	2			
		3931-1	23460			
		A2B3031−1	234663			
14. Distribution (include	name, MSIN, and no. o	f copies N NOV	23466		RELEASE STAMP	
14. Distribution (include See Attached Distr	name, MSIN, and no. o	f copies NOV	234867	OFFI		
14. Distribution (include See Attached Distr	name, MSIN, and no. o ibution Sheet	f copies NOV	234867 1894 18D	OFFI	CIAL RELEASE	
14. Distribution (include See Attached Distr	name, MSIN, and no. o ibution Sheet	f copies NOV :	2345676910111213 1994 1996 1996	OFFIC	CIAL RELEASE (5)	
14. Distribution (include See Attached Distr	name, MSIN, and no. o ibution Sheet	f copies NOV	234861091011121214 1994 1994	OFFIC DATE	CIAL RELEASE (5)	
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ENGINEERING CHANGE NOTICE					1. ECN (use no.	from pg. 1)
				Page 2 of 2	614165	
15. Design	16. Cost Impac	;t			17. Schedule Impact	(days)
Verification	1	INEERING	CONS	TRUCTION		
Required	Additional	r1 \$	Additional	[] \$	Improvement [1
[] Yes	Savings	[] \$	Savings	(1)	Delay [ן ו
[X] No	<u> </u>	a the related		the engineering	documents identified or	J Side 1)
that will be at	ffected by the c	hange describ	ed in Block 12. Enter	the affected doc	ument number in Block '	19.
SDD/DD	[]	Sei	smic/Stress Analysis	[]	Tank Calibration Manual	[]
Functional Design Criteri	a []	Str	ess/Design Report	[]	Health Physics Procedure	[]
Operating Specification	[]	Int	erface Control Drawing	[]	Spares Multiple Unit Listin	8 []
Criticality Specification	[]	Ca	ibration Procedure	[]	Test Procedures/Specifica	tion []
Conceptual Design Repo		Ins	tallation Procedure	Ü	Component Index	[]
Equipment Spec.	įj	Ma	intenance Procedure	ĨĬ	ASME Coded Item	[]
Const. Spec.	ii	Eng	jineering Procedure	ĺ	Human Factor Considerati	on []
Procurement Spec.	[]	Ор	erating Instruction	ĪĴ	Computer Software	ĪĪ
Vendor Information	íí	Ор	erating Procedure	ίĵ	Electric Circuit Schedule	ĨĨ
OM Manual	ĹĬ	QO	erational Safety Requiremen	' [j	ICRS Procedure	ĬĬ
FSAR/SAR	ίi	IEF	D Drawing	ří	Process Control Manual/Pl	an []
Safety Equipment List	រ៉ា	Ce	Arrangement Drawing	ří	Process Flow Chart	ii .
Radiation Work Permit	ĹĬ	Ess	ential Material Specification	Ϊí	Purchase Requisition	ří
Environmental Impact St		Fac	. Proc. Samp. Schedule	ii	Tickler File	[]
Environmental Report	. []	Ins	pection Plan	ij		[]
Environmental Permit	[]	Inv	entory Adjustment Request	ii		ΪÌ
19. Other Affected	Documents: (NO	TE: Document	s listed below will no	ot be revised by the	his ECN.) Signatures l	Delow
indicate that 1	the signing orga	nization has	been notified of other	r affected documen	ts listed below.	
	mmber/Revision	N / A	Document Number/Revi		Document Number Re	vision
N/A		N/A		N/	A	
					·	
20. Approvals			_	_		
OPERATIONS AND ENG!	Signature	_	Date	Sig ARC <u>HITE</u> CT-ENGINEER	nature	Date
OPERATIONS AND ENGI	HENZUELABID. V	alinniela	10/6/94	PE	L	
Cog. Eng. B. D. V	NIED CILL	1/1-0	10/0/14	QA		
Cog. Mgr. C. S. H	ILLER CHICA		11/4/4			
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Impact Level

United States Government or any agency thereof.

RECORD OF REVISION

John Korn Low Francisco M. M.

(1) Document Number

WHC-SD-WM-ER-382

Page 1

(2) Title

IANK	TANK CHARACTERIZATION REPORT FOR SINGLE-SHELL TANK 241-T-107						
		CHANGE CONTROL RECORD					
(3) Revision		(4) Description of Change - Replace, Add, and Delete Pages	Authorized for Release (5) Cog. Engr. (6) Cog. Mgr. Date				
(0	(7) WHC-SD-WM-ER-382, REV. 0, EDT 159072, SEPTEMBER 27, 1994		Malle 19/11/4			
0.	A RS	CHANGED PAGE 54 OF CHAPTER 5 PER ECN 614165	4	1			
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Table 5-23. Overall Data Summary and Inventory Estimates. (3 pages)

Analyte	Process History (Agnew 1994)	TRAC (Jungfleisch 1984)	Drainable Liquid Results (Avg.)	Average Core 51 and 52	Total Tank Inventory
Anions (continued)			<i>µ</i> g/mL		
Nitrite (NO ₂ -)	4,000	0	12,700	11,700	12,000
Phosphate (PO ₄ ')	520,000		5,423	113,500	117,000
Sulfate (SO ₄ -)	25,800	0.28	10,300	9,980	10,250
тос			855	963	990
TIC	103	350	1,800	2,970	3,050
Radionuclides	μCi/g	μCi/g	μCi/mL	μ Ci/g	kCi
Americium-241		0.0019	0.000115	0.0141	0.0145
Carbon-14		0	0.000113	0.000181	0.00
Cesium-134			< 0.00027	< DL	
Cesium-137	4.58	0	8.4	12.0	12.3
Cobalt-60			< 0.0012	< DL	
Cerium/Praseodymium 144			< 0.00484	< DL	
Europium-154			< 0.00411	< DL	
Europium-155		*-	< 0.0149	< DL	
. lodine-129		0	< 0.000079	NA	
Plutonium-239/240	0.40	0.053	< 0.0114	0.131	0.13
Plutonium-238		8.8e-05	< 0.0025	0.144	0.15
Potassium-40	0		0.00373	0.238	0.24
Ruthenium-103		<u>-</u> -	< 7.26	< DL	<u></u>
Ruthenium/Rhodium-106		5.8e-09	< 0.0942	< DL	
Strontium-90	6.27	38.9	0.038	108	110
Technetium-99		0	0.0225		
Thorium 228/Lead			< 0.0021	< DL	
Tritium-3 (H ³)			0.00257	0.00124	. 0.00
Total Alpha			0.006	0.434	0.45
Total Beta			11.75	330	340

P. Segall	H4-19	Y
E. J. Shen	S4-58	Ŷ
B. C. Simpson (10)	R2-12	X
G. L. Smith	H4-61	â
M. J. Sutey	T4-07	Ŷ
L. D. Swenson	G3-20	Ŷ
J. D. Thomson	R2-76	Х
G. L. Troyer	T6-50	X
D. A. Turner	S7-15	Χ
C. J. Udell	L6-12	Χ
D. J. Washenfelder	L4-75	X
M. S. Waters	S6-30	Х
G. R. Wilson	S7-14	X
TFIC (Tank Farm Information Center)	R1-20	Χ
Central Files	L8-04	Х
EDMC	H6-08	Х